THE 21st TAIWAN-JAPAN-KOREA SYMPOSIUM ON STRONGLY CORRELATED ELECTRON SYSTEMS (TJK21)

6 April 2023 (Thursday)

Session I

08:20		Registration
08:45		Opening Remarks
		Session Chair: Di-Jing Huang
09:00	Keynote	ARPES to RIXS Studies of High-Temperature Superconductors
	Speech	Atsushi Fujimori, University of Tokyo, Japan
09:40	A1	Anomalous ordered magnetic moments in Co ²⁺ and V ³⁺
		magnetic systems
		Jae-hoon Park, POSTECH, Korea
10:10	A2	Quantum fluctuations of charge order induce phonon
		softening in La _{2-X} Sr _x CuO ₄
		Hsiao-Yu Huang, NSRRC, Taiwan
10:25		Coffee break

Session II

		Session Chair: Ying-Hao Chu
10:40	A3	Antiferromagnetic domain imaging via linear magnetoelectric
		effect
		Tsuyoshi Kimura, University of Tokyo, Japan
11:10	A4	Strongly correlative ionic transport triggered by oxygen-vacancy
		ordering transition in a doped multiferroic
		Chan-Ho Yang, KAIST, Korea
11:40	A5	Twisted complex oxide lateral homostructures
		Jan-Chi Yang, National Cheng Kung Univ., Taiwan
12:10		Poster flash session <u>Session Chair: Cheng-Maw Cheng</u>
12:40		Group Photo/Lunch/ Poster session (start at 13:20)

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Session III

Session	n III	
		Session Chair: Way-Faung Pong
14:20	B1	Quantum anomalous Hall effect in 2D magnetic materials
		Jaejun Yu, Seoul National University, Korea
14:50	B2	Enhancement of electronic nematic susceptibility near the first
		superconducting dome in the kagome superconductor Cs(V _{1-x} Ti _x) ₃ Sb ₅
		Kee Hoon Kim, Seoul National University, Korea
15:20	В3	Quantum critical 2D Bose gas formation in the honeycomb
		antiferromagnet YbCl ₃
		Yosuke Matsumoto, Max Planck Institut, Germany
15:50	B4	Observation of the charge density wave gap in CuTe with
		ARPES
		Ping-Hui Lin, NSRRC, Taiwan
16:05		Coffee break
		Session Chair: Chao-Hung Du
16:20	B5	Metal-insulator transition and negative magnetoresistance
		in Ba _{3-x} Eu _x Nb ₅ O ₁₅
		Takuro Katsufuji, Waseda University, Japan
16:50	B6	Superconductivity in Ternary Telluride Sc ₆ MTe ₂ with 3d, 4d, and
		5d Transition Metals
		Yoshihiko Okamoto, University of Tokyo, Japan
17:20	В7	The Dynamical Charge Response of Plasmons to the Charge-Density-
		Wave Order in CuTe
		Ming-Wen Chu, National Taiwan University, Taiwan
17:50	B8	Dirac nodal line in hourglass semimetal Nb ₃ SiTe
		Ro-Ya Liu, NSRRC, Taiwan
18:20		Departure for banquet
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7 April 2023 (Friday)

Session IV

		<u>Session Chair: Atsushi Fujimori</u>
08:30	C1	Ab initio studies of cuprate superconductors and analyses on the
		electron fractionalization
		Masatoshi Imada, Waseda Univ./Toyota Phys. Chem. Res. Inst. /Sophia
		Univ., Japan
09:00	C2	New twists in strongly correlated electronic systems:
		from Kondo screening to unconventional superconductivity
		Chung-Yu Mou, National Tsing Hua University, Taiwan
09:30	C3	Revealing the mystery of strange metal states in correlated
		electron systems
		Chung-Hou Chung, National Yang Ming Chiao Tung University,
		Taiwan
10:00	C4	Unconventional exciton evolution from the pseudogap to
		superconducting phases in cuprates
		Amol Singh, NSRRC, Taiwan
10:15		Coffee break

Session V

		Session Chair: Jaejun Yu
10:30	C5	My story of van der Waals magnets and Prof. Shin
		Je-Geun Park, Seoul National University, Korea
11:00	C6	Atomically Resolved Electronic Structure of Copper-Oxide Chains and
		Planes on Incommensurate Charge Order in YBa ₂ Cu ₃ O _{6+x}
		Ya-Ping Chiu National Taiwan Univ., Taiwan
11:30	C7	First-principles studies of delicate octahedra tilting in cuprates
		Chi-Cheng Lee, Tamkang Univ., Taiwan
12:00	C8	Solving high-temperature superconductivity with quantum computers
		Kwon Park, KIAS, Korea
12:30		Closing Remarks <u>Session Chair: Di-Jing Huang</u>
12:50		Lunch & Academic Visit for future cooperation

Organizers

National Synchrotron Radiation Research Center (NSRRC), Taiwan Center for Nanotechnology, Materials Science and Microsystems, National Tsing Hua University (NTHU), Taiwan

MICAtronics, National Tsing Hua University (NTHU), Taiwan